

November 2011

SAVANNAH RIVER NUCLEAR SOLUTIONS

SRNS Today

'C' is for clean up

p 6 Making progress
on C Reactor



PAGE 4-5 ▲
SRNS donates funds
to area charities



PAGE 8 ▲
NNSA breaks ground
for new Tritium buildings

PAGE 9
SRNL hosts leaders
from three DOE/NNSA
nuclear programs

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Dwayne Wilson

SRNS President and CEO



Welcome to the November 2011 edition of "SRNS Today."



Savannah River Nuclear Solutions, LLC, is a Fluor partnership with Newport News Nuclear and Honeywell. Since August 2008, SRNS has been the management and operating contractor for the Savannah River Site, a Department of Energy-owned site near Aiken, South Carolina, including the Savannah River National Laboratory. The SRNS corporate and community offices are located in the renovated 1912 "Old Post Office" building in Aiken, S.C.

The primary initiatives of SRNS are national security, clean energy and environmental stewardship.

SRNS Today is published monthly by SRNS Corporate Communications to inform our stakeholders of the company's operational and community-related activities. If you have questions or comments, please contact us at 803.952.9584.

For additional information about SRNS, please visit our website at savannahrivernuclearsolutions.com.

When I think of November, I usually think of Thanksgiving. I'd like to share with you some of the things I'm thankful for at Savannah River Nuclear Solutions.

I'm thankful that SRNS has excellent leaders, who will help guide this company and the Savannah River Site into the future. We've recently reorganized our company's structure (see the story on the next page) in order to better align our operations with the goals set forth in Enterprise.SRS.

I'm thankful that our customers see SRS as a center for growth. Recently, the National Nuclear Security Administration (NNSA) and the NNSA Savannah River Site Office broke ground for two new modern Tritium facilities that will provide enhanced security and advanced technologies to support NNSA missions here. The story is on Page 8.

I'm thankful for our talented scientists at the Savannah River National Laboratory. Dr. Daniel McCabe of SRNL was a member of the Japan Earthquake and Tsunami Disaster Response Team, which recently received the Energy Secretary's Achievement Award for "exceptional contributions to the DOE's response to the earthquake and tsunami in Japan on March 11, 2011." For more on this honor, please see Page 9.

I'm thankful that SRNS is a company that cares about the local community. On Pages 4-5, you'll see stories about our donations to area charities, including the Ronald McDonald House Charities, The Family Y, Children's Place and The First Tee of Aiken. These groups make our community a better place to live, and SRNS is proud to help.

I'm thankful for you—our community leaders, our stakeholders and our employees. Your support and hard work on behalf of our company will enable us to achieve our missions with excellence, both now and in the future.

I hope your Thanksgiving was a safe one spent with family and friends. We all have much to be thankful for, not only on a Thursday in November, but all year long.

SRNS announces reorganization

New structure to improve operational effectiveness and mission alignment

SRNS announced in November a new organizational structure aimed at further improving the operational effectiveness and performance of the company, as well as bringing SRNS leadership and mission execution in line with the objectives of the recently announced Enterprise.SRS vision.

The new vision leverages the government's investment in nuclear materials knowledge that exists at SRS to ensure that current and future missions for national security and environmental management are accomplished with excellence, and to build on a base of expertise to conduct innovative and novel nuclear research to assist in addressing the nation's energy challenges.

Currently operating at a high level of efficiency, SRNS will benefit from improved business discipline and focused leadership. SRNS President and CEO Dwayne Wilson said in a letter to employees, "Our decision to reorganize the company now is the logical next step in meeting and exceeding the expectations of our customers – in DOE and other Federal agencies."

SRNS Executive Team: An Executive Team reporting to the Office of the President will focus executive decision-making on setting priorities and allocating resources to achieve the objectives of the E.SRS vision. In addition to Wilson, members of the Executive Team include:

Fred Dohse, Executive Vice President and Chief Operating Officer

Terry Michalske, Executive Vice President, Savannah River National Laboratory Director

Dave Eyler, Senior Vice President and Deputy SRNL Director

Dennis Donati, Senior Vice President for NNSA Operations and Programs

Paul Hunt, Senior Vice President for EM Operations

Beth Bilson, Senior Vice President for Support Services and Chief Business Officer

Jim Hanna, Senior Vice President for Corporate Services

Alice Doswell, Senior Vice President for Environment, Safety, Security and Health

Savannah River National Laboratory SRNL is reorganized to align the business and mission development assets of the National Laboratory more closely with Operations; and to improve the level of technical program direction and integration to achieve the growth and value creation objectives of E.SRS.

Leaders in SRNL include Tony Burris, Associate Laboratory Director for National Security Programs; Jeff Griffin, Associate Laboratory Director for Environmental Stewardship; Tom Sanders, Associate Laboratory Director for Clean Energy; John Marra, Associate Laboratory Director for Science & Technology; Rick Sprague, Associate Laboratory Director for Nuclear Materials Program Integration; Freddie Grimm, Director, Research Operations.



Dwayne Wilson



Fred Dohse



Terry Michalske



Dave Eyler



Dennis Donati



Paul Hunt



Beth Bilson



Jim Hanna



Alice Doswell

National Nuclear Security Administration (NNSA) Operations

The dedicated management of NNSA Tritium and NA-26 - Pit Disassembly and Conversion (PDC) and Waste Solidification Building (WSB) projects remains unchanged. Key contact roles and common support of NNSA programs will be closely aligned with SRNL.

Leaders in NNSA Operations include Lee Schifer, Director of Tritium Operations; Jim Dollar, Director of Tritium Programs; Guy Girard, Director of NA-26 - PDC/WSB Projects; Larry Ling, Director of NA-26 - PDC/WSB Programs.

Ronald McDonald House Charities receive donation, gift from SRNS

SRNS in the community



SRNS donates \$10,000 to First Tee

SRNS recently donated \$10,000 to The First Tee of Aiken. On hand for the presentation were (from left) Kenny Evenson, The First Tee of Aiken Program Director; SRNS General Counsel Jennifer Curtis; First Tee Board Chair Steve Kisner; Executive Director Elizabeth Smith; and Susie Ferrara, SRNS Corporate Communications. The First Tee program promotes character development and life-enhancing values to young people through the game of golf. More than 850 children are served by The First Tee of Aiken.

SRNS raises \$25,000 for Children's Place

SRNS teamed up with Houndslake Country Club during a celebrity waiter fundraiser to assist Children's Place, raising more than \$25,000 and surpassing all other participating company sponsors by \$3,000. In gratitude for extensive contributions made by Houndslake Country Club, an engraved silver bowl was recently presented by Clif Webb (right), SRNS Vice President, Corporate Communications, to the club's General Manager, Jeff Howell. This year, 10 restaurants and their associated company-sponsors raised over \$80,000 during Celebrity Waiter night.



SRNS has donated \$10,000 and a special gift to the Ronald McDonald House Charities (RMHC) of Augusta.

Located on Greene Street in downtown Augusta, Ga., RMHC of Augusta houses, on average, 11 families from outside the Augusta area at any one time. The highest percentage of patients associated with RMHC of Augusta are babies in the Georgia Health Sciences Children's Medical Center neonatal care unit or children receiving critical care either at the Joseph M. Still Burn Center or pediatric units within local hospitals.

"The Ronald McDonald House of Augusta is facing a severe shortage of space to assist an ever-growing need," said Clif Webb, SRNS Vice President, Corporate Communications. "As a company, we're just not willing to look the other way. We want to help this outstanding charitable organization."

According to RMHC Executive Director Betts Murdison, RMHC assisted 542 families in 2010. Unfortunately, 85 families were forced to stay in hotels last year due to lack of space at the Ronald McDonald House and because the house is not handicapped accessible.

"This non-profit organization provides basic needs for families while their child is in critical care," said Murdison. "We're not considered a shelter. A minimum donation of \$20 is requested for each night's stay, though no family is ever turned away for an inability to pay. Keep in mind, the normal operating cost per day, per family, is \$79."

According to Murdison, SRNS's donation will keep the water and electrical bills paid. "Success on a daily basis at the Ronald McDonald House can be summarized as everyone being tucked in at the end of the day," said Murdison.

Photo: SRNS Vice President of Corporate Communications Clif Webb (right) presents a large gift basket with items for families at the Ronald McDonald House and a check for \$10,000 to Betts Murdison, RMHC Executive Director. Also attending the event were current families staying at the Ronald McDonald House, as well as members of the RMHC Foundation Board and staff.

SRNS donation makes for a sweet day at The Family Y of Greater Augusta



Ice cream will sweeten almost anyone's day. So will a check for \$10,000. In November, SRNS donated both to The Family Y of Greater Augusta.

The donation celebration, held at Warrenville Elementary School during a Family Y "Prime Time" after-school session, featured lots of frozen treats, fun and laughter as SRNS Vice President of Corporate Communications Clif Webb presented a bowl of ice cream and a check for \$10,000 to Catie McCauley, Branch Executive Director for The Family Y of Aiken County, and Don Winslow, Chairman of the Aiken Family Y Board of Directors (pictured above).

"Many of us just don't realize how important it is to give our young people a safe and healthy place to stay after school," said Webb. "The Family Y understands and fills this need by providing a fun and structured environment for our kids, keeping them off the street and out of harm's way."

The Family Y provides a variety of programs including physical fitness programs and social opportunities for all ages; swimming lessons; licensed child care and preschool; youth sports programs; senior activities; and classes and camps. The Family Y also operates before- and after-school programs at 31 elementary schools serving over 1,000 children in Georgia and South Carolina. The Family Y encompasses Augusta, North Augusta, Aiken and nearby communities.

"We are so grateful to our friends and community partners at Savannah River Nuclear Solutions," said Family Y of Greater Augusta President and CEO Danny McConnell. "This gift means that low-income families are able to receive financial assistance to ensure their children thrive in the after-school care they need." At the Y, no one is turned away for inability to pay. The Family Y provided over \$826,000 in 2010 in financial assistance for all YMCA programs and services.



"Many of us just don't realize how important it is to give our young people a safe place to stay after school. The Family Y fills this need by providing a fun and structured environment for our kids."

Clif Webb

Vice President,
SRNS Corporate
Communications

SRNS in the community

SRNS Mentor-Protégé Day supports small businesses

SRNS and DOE-Savannah River senior leadership recently met with representatives from eight DOE protégé firms to discuss potential business opportunities.

"Providing these protégé companies with access to the strength of our leadership team is the main purpose of this event," said Beth Bilson, SRNS Senior Vice President of Support Services and Chief Business Officer. "It sends a strong message that our senior leadership finds value in supporting our protégés. The Mentor-Protégé Program is an excellent opportunity not only for the participants but for our company as well."

The DOE Mentor-Protégé Program encourages prime contractors like SRNS to pair with small disadvantaged firms certified by the Small Business Administration (SBA) to create long-lasting relationships for sharing best practices and lessons learned. SRNS provides assistance, such as technical and management assistance and subcontractor support. Protégés gain experience which helps them effectively compete for federal government contracts.

SRNS's Mentor-Protégé Day creates a foundation for future discussions around leveraging the Mentor-Protégé Program to satisfy strategic objectives. End-users and buyers are given the opportunity to outline expectations, while the protégé firms are given direct access to customers and the buying community through information booths.

C Area work pairs preservation with closure

Since SRNS received American Recovery and Reinvestment Act (ARRA) funding in 2009, many successes have been achieved, including the closures of M, P and R Areas. Now, SRNS is preparing for the final stages of another significant accomplishment: the cleanup of C Area, including the Disassembly Basin.

A team of approximately 20, including project managers, project controls and environmental compliance personnel, engineers, samplers and others from Area Completions Projects (ACP), worked to characterize the waste units within C Area, determine the cleanup needed and begin the closure process. Though planned for a later time, C Area cleanup was accelerated and put into action under ARRA as efficiencies from other projects were realized and additional funding became available.

The first waste unit cleanup project in C Area involved the contaminated Cask Car Railroad tracks, which were removed and shipped to the E Area burial ground for disposition. ACP then replaced them with new tracks resembling the original configuration, part of an effort to preserve C Area, a protected historical site. "Cleanup has been performed in concert with the South Carolina Historical Preservation Office. Our intent is to clean this area and be protective of the historical framework of these C Area facilities," said Chris Bergren, manager of Area Completion Projects.

The only C Area waste unit remaining for cleanup is the buried, inactive process sewer lines, and remediation of these lines will start in December and be completed in April 2012. To support the cleanup of the Disassembly Basin, a temporary building was constructed outside C Reactor to house 10 evaporators that will treat 3 million gallons of contaminated water. The existing sludge and scrap metal in the basin bottom will be buried under 18,000 cubic yards of grout, removing the potential for future leakage and making it safe for long-term storage and natural decay. Contaminated water removal will begin in mid-January and complete in August.

The last reactor complex constructed at SRS, C Area produced nuclear materials for defense purposes. When cleanup is complete, C Area will be a preserved piece of SRS' role in the Cold War.





Photos: (Below) Concrete placement for temporary building and fuel tank pads; (top, left to right) SRNS Engineering performs above-ground equipment evaluation for historical preservation; installing a fuel line for evaporators; and grouting in progress and complete in the Vertical Tube Storage Area.



NNSA breaks ground at SRS for two new Tritium buildings

Ceremony marks the start for eliminating costly Cold War-era operating facilities

Officials from the National Nuclear Security Administration (NNSA) Defense Programs and the NNSA Savannah River Site Office recently broke ground on two new buildings at SRS.

The two buildings will relocate personnel from prime tritium process real estate, enabling the next steps in the Tritium Responsive Infrastructure Modifications (TRIM) program, a plan to remove processes and equipment from Cold War-era buildings into more modern facilities that provide enhanced security and advanced technologies to support the facility mission.

In addition to the two new buildings, the 10-year TRIM program includes consolidation of existing processes and facilities, deployment of new technology and process equipment, and decontamination and decommissioning of the old structures. Implementation of this effort will result in an overall lifecycle cost reduction and assurance of continued safe and secure national security tritium mission at SRS.

"Today we're here to break ground on facilities that show the national commitment, and the NNSA's commitment, to modernizing our nuclear enterprise," said NNSA Principal Assistant Deputy Administrator for Military Application, Brigadier General Sandra Finan, who participated in the ceremony.

"Today is a historic day, but what you do every single day is just as historic. I am very proud and honored to be here to share this with you today," said General Finan. "But more importantly, I'm very proud to be associated with what you do every single day, and thank you for your dedicated service."

The Process Support Building is a 10,000 square-foot building that will house 47 tenants and replace offices, briefing rooms and control room simulators from other buildings. The Tritium Engineering Building will consolidate the engineering function into a single 16,000 square-foot structure, accommodating 94 personnel. Both buildings will be constructed through a contract with Akima Construction Services, LLC, and are scheduled to be completed in 2012.

Future projects within the TRIM program will relocate and modernize operational process equipment, allowing deactivation and decommissioning of several 1950s era structures.

Tritium is a heavy isotope of hydrogen and a key component of nuclear weapons, but it decays radioactively at the rate of 5.5 percent each year and must be replenished periodically. This is accomplished by recycling tritium from existing warheads and by extracting tritium from target rods irradiated in nuclear reactors that are operated by the Tennessee Valley Authority.



On hand for the formal groundbreaking were (from right) NNSA Savannah River Site Office Manager Doug Dearolph; NNSA Savannah River Site Office Assistant Manager for Facilities and Projects Roxanne Jump; NNSA Assistant Deputy Administrator for Nuclear Safety, Nuclear Operations and Governance Reform Jim McConnell; NNSA Principal Assistant Deputy Administrator for Military Application Brigadier General Sandra Finan; Akima Construction Services President Paul Karmazinski; SRNS Executive Vice President Fred Dohse; and Project Liaison Sandy Harris.

SRNL hosts leaders from three DOE and NNSA nuclear programs



On November 4, SRS had an unusual opportunity to host leaders of three major DOE / NNSA nuclear programs on the same day. Shown above in H Canyon with (left) SRNS' Steve Howell are: Anne Harrington, Deputy Administrator for Nonproliferation for NNSA; Pete Lyons, Assistant Secretary for Nuclear Energy (in foreground); Dave Huizenga, acting Assistant Secretary for Environmental Management, and Shane Johnson, Deputy Assistant Secretary for Nuclear Energy. Most of the day focused on SRNL activities, including H Canyon, and on partnering to use the site's facilities and expertise to serve all three programs in innovative ways. SRNL Director Dr. Terry Michalske characterized the visit as "an important step towards an enduring and constructive multi-program partnership."

DHS, European Commission initiate testing of personal radiation detectors at SRNL

The Department of Homeland Security's Domestic Nuclear Detection Office (DNDO), in partnership with the European Commission's Joint Research Center (JRC) in Ispra, Italy, has initiated testing of personal radiation detectors against national and international standards at SRNL – the first in a series of tests to gauge the performance of nine categories of commercially-available radiological detection and identification instruments.

The tests are conducted under the framework of the Illicit Trafficking Radiation Assessment Program+10 (ITRAP+10), established in August 2009 by the JRC to assist in the detection of radiological and nuclear weapons and materials by developing recommendations that describe the technical and functional requirements for the equipment used to secure land, air and sea ports of entry.

Throughout 2011 and 2012, nearly 100 instruments—provided by manufacturers—will be tested in Europe and in the United States at SRNL, the Pacific Northwest National Laboratory, and Oak Ridge National Laboratory.

Once completed, the tests will provide federal, state, and local law enforcement valuable information about which radiological detection and identification instruments can best serve their operational needs. In addition, manufacturers will gain insights that may allow them to improve devices that are already available or in development.

Honors and accolades



Energy Secretary honors SRNL for Japanese earthquake response

U.S. Secretary of Energy Steven Chu honored SRNL as part of a team of DOE offices and national laboratories that responded to the Japanese earthquake and its aftermath. SRNL's Dr. Daniel McCabe was a member of the Japan Earthquake and Tsunami Disaster Response Team, which received the Secretary's Achievement Award. The team was honored for "exceptional contributions to the DOE's response to the devastating 9.0 Richter scale earthquake and subsequent tsunami in Japan on March 11, 2011," according to the ceremony program.



Dr. Daniel McCabe

As a member of the Japan Response Team, Dr. McCabe provided input on options for storage, treatment, and disposal of contaminated water in the reactor and surrounding facilities. Reducing the radiation dose to personnel from the water and avoiding environmental releases were key safety concerns in the immediate aftermath. With over 20 years of remediation experience, Dr. McCabe was able to provide information regarding the potential applicability of several technologies to mitigate the safety concerns.

SRNS in the community

Bernie Till elected Fire Protection Engineers Fellow

Bernie Till, fire protection engineer for SRNS's Tritium Programs, was recently honored as a Fellow of the Society of Fire Protection Engineers (SFPE) at its annual meeting in Portland, Oregon.



Bernie Till

SFPE Fellows represent a distinguished group of members who have been recognized for their significant accomplishment and stature in the profession of fire protection engineering. Fellows have been members of the Society for at least 10 years and have been nominated by their peers.

Till was recognized for his contributions in spearheading the formation of the Central Savannah River Chapter of the SFPE, as well as having previously received the SFPE's Hats Off award in both 2004 and 2010, and the Rolf H. Jensen Award in 2007. Also noted were his integral role in the fire protection program at SRS, and his service to the other sites within the Department of Energy.

Also the chairman of the National Fire Protection Association Technical Committee for Fire Protection of Nuclear Facilities, Till has led the industry in understanding the nature of glovebox fires, their effects and how best to prevent them.



Mobility Impaired/Wounded Warrior Deer Hunt Thirty hunters from throughout the southeast and as far as Ohio participated on November 11 in the eleventh annual Mobility Impaired/Wounded Warrior Deer Hunt at SRS. SRNS managed the hunt and provided sponsorship in conjunction with DOE, the USDA Forest Service – Savannah River, the Wheelin' Sportsman National Wild Turkey Federation and the Rocky Mountain Elk Foundation. Participants are chosen randomly through a lottery and are escorted by an experienced hunter during the hunt who ensures their safety and provides any assistance needed. "I am delighted Savannah River Site is a part of such an exceptional event," said Fred Dohse, SRNS Executive Vice President and Chief Operations Officer. "We are able to provide these disabled hunters with the opportunity to do something they love in a safe environment."

SRNS announces reorganization

► From Page 1

Environmental Management (EM) Operations EM Operations is reorganized to focus resources and management for EM facility operations, completion of American Recovery & Reinvestment Act projects and consolidation of waste management assets and resources. Leaders in EM Operations include Steve Howell, Deputy Director, EM Operations; Mark Funk, Director, American Recovery & Reinvestment Act Project; John Gilmour, Director, Solid Waste; Tom Boykin, Director, F Area and Central Laboratory Facilities; Rick Reichel, Facility Manager, L Area; J.C. Wallace, Facility Manager, K Area; Mike Swain, Director, H Area EM Operations.

Support Services Support Services will centralize all support functions for the management and operations mission, programs and projects. This will allow the Site to improve operating efficiency and performance through greater business optimization. Leaders in Support Services include Paul Deason, Vice President, Support Services; John Grove, Chief Engineer and Nuclear Safety Officer; Phil Cirulli, Vice President and Chief Information Officer; Helena Tirone, Director, Procurement; Edie Nicholson, Director, Project Controls; Darlene Murdoch, Director, Quality and Operational Excellence; Charles Nickell, Director, Training, Interface and Planning Services; Rob Gentry, Vice President, Site Services.

Corporate Services All services required to effectively execute the SRNS contract are being consolidated under Corporate Services. Leaders for Corporate Services include Jennifer Curtis, Vice President & General Counsel; Gary Sayers, Director, Internal Audit; Clif Webb, Vice President, Corporate Communications; Carol Barry, Director, Workforce Services; John Temple, Contracting Officer; Peggy Davis, Vice President and Chief Financial Officer.

Environment, Safety, Security and Health (ESSH) ESSH provides program leadership, oversight and support functions for safety, environmental, security and health. ESSH is also responsible for execution of area completion projects. Leaders for ESSH include Pat Padezanin, Director, Health, Safety and Medical Services; Mary Flora, Director, Environmental Compliance and Area Completion Projects; Gordon Quillin, Director, Radiological Protection; Greg Floyd, Director, Safeguards, Security and Emergency Services.



Scenes of SRNS

The United Way campaign at SRS went over the top as employees donated more than \$1.45 million to the charity. SRNS coordinated the effort. (Photograph by Steve Ashe)

Savannah River Nuclear Solutions



national security • clean energy • environmental stewardship

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Our commitment is to create innovative, effective solutions for our country's most pressing initiatives.

Savannah River Nuclear Solutions offers in-depth nuclear knowledge for the nation and works to make the future of our country secure, energy independent and environmentally responsible.

For more information on Savannah River Nuclear Solutions, please visit our website: savannahrivernuclearsolutions.com.